ADHIYAMAAN
COLLEGE OF ENGINEERING
AUTONOMOUS

TECHQUEST

ANNUAL NEWS LETTER

2022-2023

PUBLISHED BY

DEPARTMENT OF INFORMATION TECHNOLOGY

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DEPARTMENT AT GLANCE

The Department of Information Technology has been an active and effective part of Adhiyamaan Educational Research Institutions (AERI) for more than a decade. Right from its inception of the year 2001, the department has been offering well - built infrastructural facilities with different computer platforms for grooming professional students to meet the incessant demands of the IT Industries. The Department strives to produce eminent professional tuned to the real time working environment. The department has vibrant and dynamic community of faculty and students and their varied achievements has made the department one of the best in the campus. The faculty team takes creative and committed measures to bring passion, enthusiasm to create quality professionals. The department provides best infrastructure and educational resources for students.

The curriculum is well defined to cater to the needs of both society and industry. The learner during their four-year under graduate course would gain a comprehensive and extensive understanding of the various nuances of Information Technology. Apart from curriculum, various programmes are organized to deepen the students' understanding of various IT relevant concepts, and also courses aimed at kindling the students' independent thinking and creativity in relevance with the discipline. The Students are closely assisted by the faculty.

The Department has faculty members specialized in Wireless Networks, Data mining, Soft Computing, Network Security, Cyber Security, Big Data Analytics, Image Processing, Cloud Computing and Mobile Computing. The Department takes pride in the large number of faculty engaged in research activities.

The Department is committed to build young professionals with a strong sense of intellectual curiosity, leadership skills, ethics and integrity, as they enter the workforce. The Department conducts a continuous and rigorous placement development programme that shapes every learner to be an employable and industry ready individual at the end of four years. At present the department holds a phenomenal placement record of more than 80%.

BEST PRACTICES

1. Outcome Based Education (OBE) and Rigorous learner-centric teaching helped in improving the evaluation of teaching learning process.
2. Classroom teaching is based on a lesson plan formulated at the beginning of a semester.
3. Teaching as per lesson plan interspersed with three assessment exams helps to continuously monitor learning outcomes
4. Computer assisted E learning is practiced for teaching, which enables to cover the syllabus in time, the virtual models can be demonstrated and animations of processes which are difficult to explain with blackboard and chalk
5. Assignments on current trends for learning of latest techniques and effective understanding of theory are given to the students
6. Seminars/Webinars in content beyond syllabus & Hands on experience workshops are conducted
7. Students are encouraged to undergo in-plant training and internships during their semester vacations.
8. Personality development training programs are conducted in third and final year so as to equip them for placement.
9. Guidance is given for competitive exams such as GATE, GRE, etc.
10. Consistent mentoring of the students and tracking slow learners and involving in parents' meetings
11. Value added courses/frequent guest lectures/invited talks by the practitioners are arranged to give more exposure on real time challenges and industrial practices.

SALIENT FEATURES

- Dedicated and well-qualified faculty.
- Spacious class rooms with projector.
- Well Equipped Laboratories with the state of art IT infrastructure
- Air-conditioned seminar hall and library.
- 1000 Mbps lease line internet connectivity
- Tutor -ward system for regular interaction with students to address their difficulties
- Students are encouraged to participate in activities like paper presentation, technical quiz, software debugging, sports, NSS and cultural activities.

DEPARTMENT VISION

To become a globally recognized centre of excellence in the field of Information Technology, providing technology excellence that advances learning, teaching, research to produce budding IT professionals, researchers, innovators and entrepreneurs

DEPARTMENT MISSION

M1: To produce competent IT professionals with the potential of Programming and Problem solving skills.

M2: To facilitate the students to work with modern tools, inventive technologies and innovative research capabilities.

M3: To build leadership abilities by inculcating the spirit of ethical values.

PEOS

I. Our graduates will be able to analyze and solve computing problems by applying the principles of Mathematics, Science, Information Technology and Engineering.

II. Our graduates will be globally competent to use recent Information Technologies to design quality Software systems that are economically feasible and socially acceptable through their innovations.

III. Our graduate will excel in their career or higher education by acquiring communication and Interpersonal skills to work in team effectively and ethically by engaging in life-long learning.

POS

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PSOs

1. Professional Skills: Ability to identify, analyze, design, develop, test and manage complex software and information management systems.

2. Web Designing Skills: Possess knowledge on software design process using open ended programming and use the web designing skill to e skills to establish IT enable solutions for the societal needs.

3. Successful Career and Entrepreneurship: Capable of adapting to new technologies and constantly upgrade the skills with an attitude towards lifelong learning.

MESSAGE FROM HOD DESK

I am happy to inform that our pride rests in the yearly newsletter – TECHQUEST 2022-2023 which Highlights the academic and non-academic activities of both faculty and students of the department. Computer is an essence of today's world, and we strive to bring out the hidden talents from our students and also make them ready to face the outside world.

Dr.THILAGAVATHY M.E., Ph.D.,
PROFESSOR & HEAD
DEPARTMENT OF INFORMATION TECHNOLOGY
ADHIYAMAAN COLLEGE OF ENGINEERING

MESSAGE FROM EDITOR

On behalf of Information Technology department, Adhiyamaan College it gives me immense pleasure in presenting this newsletter. This Newsletter focuses on happenings of the along with incredible achievements of our students & faculty. I hope that this newsletter will be giving you all an excellent insight on various achievements by the members of our IT department.

Mr. SATHISHKUMAR S M.E.,(Ph.D)

Assistant Professor,

Department of IT.

SEMINAR/WEBINAR

A number of seminars from various Industrial Experts in the field were organized by our IT department for in-depth understanding of the recent trends.

S.No	Event Photo	Name of the Event	Date	Resource Person and Organization
1.		Seminar on **"Ethical Hacking and Cloud Computing"**	20.08.2022	Mr.K.Koushik & Mr.Richsrdson George Apollo Computer Education- Hosur
2.		Seminar on **"Android as an Entrepreneur"**	16.09.2022	Mr.Sabarish Edu CADD Hosur
3.		International Webinar on **"DevOps-A Boon to VUCA world"**	27.09.2022	Mr.K.C.Rohit Senior Agile Consultant, France

S.No	Event Photo	Name of the Event	Date	Resource Person and Organization
4		Seminar on **"GATE Awareness"**	29.09.2022	**Mr.FawadYar Khan** Director-Marketing GATE FORUM Hyderabad
5		Seminar on **"iOS Application Development"**	15.10.2022	**Mr.Shubam Gupta .R** Senior iOS Developer, Suzuki motor cycle , Bangalore
6		Seminar on **"Resume Writing"** (Preplacement Training)	24.02.2023	**Mr.Raja** Apollo Education Hosur
7		Seminar on **" Full Stack Development"**	01.03.2023	**Mr.Vin Arasu** Full Stack Developer

WORKSHOP

A workshop is one of the main techniques used for higher learning. This method relies heavily on the involvement of the learner in formulating or constructing knowledge through hands-on, small-group and individual explorations, using concrete objects or technology.

S.No	Event Photo	Name of the Event	Date	Resource Person and Organization
1		Two Days Workshop on " **Full Stack Development**"	20.01.2023 21.01.2023	Mr.Sabarish.S Senior Android Developer RxPrism Health Systems Pvt.Ltd Bangalore
2		Two Days Workshop on " **Web Designing**"	09.02.2023 & 10.02.2023	Ms.A.Ashwini Full Stack Developer I will Technologies Hosur

PROFESSIONAL BODY -COMPUTER SOCIETY OF INDIA (CSI)

In order to develop the student's innovative ideas and knowledge the conference were organized in our department under CSI.

Event Photo	Name of the Event	Date	Resource Person and Organization
	National Conference on "Trends in Advanced Computing and Applications"	23.03.2023 & 24.06.2023	Dr.PannirSelvam, Principal Engineering Fellow, Vioneer Pvt. Ltd, Bangalore

FACULTY ACHIEVEMENTS

AWARDS AND RECOGNITIONS

Photo	Name of the faculty	Name of the award	Awarded by	Date
	D.THILAGAVATHY Professor & HOD	Academic Excellence Award on the event WORLD ENGINEEERING DAY (ENERKLE -2K23)	IE(I) Hosur Local Chapter	06.03.2023
	S.SATHISHKUMAR Assistant Professor	Best Faculty Advisor Award on the event WORLD ENGINEEERING DAY (ENERKLE -2K23)	IE(I) Hosur Local Chapter	06.03.2023

Conference Publications

S.No	Name of the faculty	Title of the paper	Published in	ISSN. No	Date of Issue
1	Mrs.S.Sujatha	Cloud Intrusion Detection Based on Machine Learning	Data Analytics and Artificial Intelligence	ISBN-978-81-948459-4-2	April 2023 Vol.3 Issue.3 PP.297-302
2	Mrs. G.Priyanga	Covid-19 Face Mask detection Using CNN &Open CV with Arduino Gate Control	Data Analytics and Artificial Intelligence	ISBN-978-81-948459-4-2	April 2023 Vol.3 Issue.3 PP.290-296

JOURNAL PUBLICATIONS

S. No	Name of the faculty	Title of the paper	Published in	ISSN. No	Date of Issue
1	Dr.D.Thilagavathy	Analysis of the Efficacy of Real-Time Hand Gesture Detection with Hog and Haar-Like Features Using SVM Classification	International Journal of Recent and Innovation Trends in Computing and Communication	ISSN: 2321-8169 DOI: https://doi.org/10.17762/ijritcc.v10i2s.5929	December 2022 Vol.10 Issue :2 PP-199-207
2	Dr.D.Thilagavathy	Plant Leaf Disease Prediction Using Deep Dense Net Slice Fragmentation and Segmentation Feature Selection Using Convolution Neural Network	International Journal of Intelligent System and Applications in Engineering	ISSN:2147-679921	May 2023 Vol.11 Issue 6 PP-76-85
3	Dr.D.Thilagavathy	A Method for Identifying Inappropriate Content in You tube Videos and Classify it Based on Deep Learning	International Journal of Emerging Technologies and Innovative Research	ISSN:2349-5162	April 2023 Vol.10 Issue 4 PP.108-116
4	Mr.S.Sathishkumar	Diabetic Retinopathy detection Using Multi-Task Learning	International Journal of Creative Research Thoughts	ISSN-2320-2882	Mar 2023 Vol.11 Issue.3 PP-296-305
5	Mr.S.Sathishkumar	Detection of Brain Tumors Using Transfer Learning Features and Machine Learning Techniques	International Journal of Innovative Research in Technology	ISSN.2349-6002	Mar 2023 Vol.9 Issue.10 PP 632-635

S.No	Name of the faculty	Title of the paper	Published in	ISSN. No	Date of Issue
6	Mrs.P.Vanathi	Automated Detection of Cardiomegaly & Calculation of CTR Using Cheadt X –Ray Images	International Journal for Modern Trends in Science and Technology	ISSn-2455-3778	April 2023 Vol.9 Issue.4 PP.339-344
7	Mrs.P.Vanathi	Liquid Steganography-Secret Message as Living Cells Using DNA Computing	International Journal of Innovative Research in Technology	ISSN.2349-6002	April 2023 Vol.9 Issue.11 PP 412-422
8	Mr.G.RamSankar	Real Time Driver Drowsiness Detection System	International Research Journal of Engineering and Technology	ISSN- 2395-0056	Mar 2023 Vol.10 Issue.3 PP 1189-1192
9	Mr.G.RamSankar	Adaptive Query Processing Over Encrypted Data Using Blow Fish	International Journal of Innovative Research in Technology	ISSN.2349-6002	April 2023 Vol.9 Issue.11 PP 247-253
10	Mrs. G.Priyanga	Spam Spoiler for Public and Private E-Mail Services	Journal of Emerging Technologies and Innovative Research	ISSN:2349-5162	April 2023 Vol.10 Issue 4 PP.132-141

S. No	Name of the faculty	Title of the paper	Published in	ISSN. No	Date of Issue
11	Mrs.C.Puvana Devi	FAKE Product Review Detection	International Journal of Modernization in Engineering and Technology	ISSN-2582-5208	Mar 2023 Vol.05. Issue 3 PP.3566-3571
12	Mrs.C.Puvana Devi	Medchain For Safe Guarding Patient Health Records Using Smart Contract and Web 3.0	International Journal of Modernization in Engineering and Technology	ISSN-2582-5208	April 2023 Vol.05. Issue 4 PP.587-595
13	Mrs.S.Sujatha	Block Chain Based Auction Mechanism Using ECDSA	International Journal of Creative Research Thoughts	ISSN-2320-2882	April 2023 Vol.11 Issue.4 PP-237-244
14	Mrs. G.Priyanga	Covid-19 Face Mask detection Using CNN &Open CV with Arduino Gate Control	Data Analytics and Artificial Intelligence	ISBN	

FACULTY DEVELOPMENT PROGRAMMES/SHORT TERM TRAINING PROGRAMMES

S. No.	NAME	TITTLE OF FDP/STTP	ORGANISED BY	DURATION
1.	THILAGAVATHY D	Design thinking	ICT ACADEMY	28-11-2022 to 29-11-2022
2.	S.SUJATHA	Design thinking	ICT ACADEMY	28-11-2022 to 29-11-2022
3.	G.RAMSANKAR	Design thinking	ICT ACADEMY	28-11-2022 to 29-11-2022
4.	S.SATHISHKUMAR	Research perspectives and future trends in AI and DS	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	22-08-2022 to 26-08-2022
5.	S.SATHISHKUMAR	Exploring machine learning techniques in health care	SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY	19-09-2022 to 24-09-2022
6.	S.SATHISHKUMAR	Java full stack	WIPRO	26-09-2022 to 17-10-2022
7.	S.SUJATHA	Java full stack	WIPRO	26-09-2022 to 17-10-2022
8.	K.KARTHIKA	Research perspectives and future trends in AI and DS	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY	22-08-2022 to 26-08-2022

STUDENT ACHIEVEMENTS

AWARDS AND RECOGNITIONS

Positive recognition is an excellent way to motivate progression and good behavior in students. Giving students rewards for their efforts suggests that their hard work is appreciated.

Photo	Name of the Student	Name of the award	Awarded by	Date
	SANGEETH DHANAPAL.V	**Best outgoing student Award on the event WORLD ENGINEEERING DAY (ENERKLE -2K23)**	**IE(I) Hosur Local Chapter**	06.03.2023
	KAVYA.G	**Best student Award on the event WORLD ENGINEEERING DAY (ENERKLE -2K23)**	**IE(I) Hosur Local Chapter**	06.03.2023
	ROHINI.S	**Best outgoing student Award on the event WORLD ENGINEEERING DAY (ENERKLE -2K23)**	**IE(I) Hosur Local Chapter**	06.03.2023

NPTEL certification to make students employable in the industry or pursue a suitable higher education programme. Our students were actively attended NPTEL courses and awarded.

Congratulations
to all students on well-deserved success in NPTEL exam
Academic Year 2022-2023

ARSHATH R — ARSHITHA ASMI J — DHEETXITH KRISHNA R (Elite) — HARI HARAN D V — HARSHNE M (Elite)

KARTHIKEYAN M — MARIYA BLESSY M (Elite) — RABISHA JENNIPPAR P (Elite) — SANTHA KUMARI R K — KARTHIKEYAN A

NELLAIAPPAN M — SANDHIYA A — SANTHIYA T (Elite) — SAVITHA N (Elite) — NASREEN SARA S

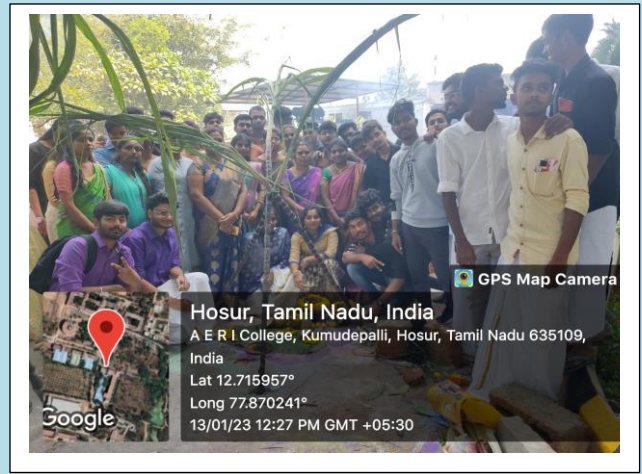SHARMI S — SOWBASHNE M (Elite) — SURUTHI R — YAGAVI S — SHAKTHI PRIYA S K (Elite)

Glimpse Gallery

AUDHA POOJA CELEBRATION

PONGAL CELEBRATION

AWARD CERAMONY

WOMEN'S DAY CELEBRATION

75th INDEPENDENCE DAY CELEBRATION

STUDENT EXTRA CURRICULAR